

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Dipentaerythritol

CAS-No. : 126-58-9

Supplier : Watson International Ltd  
Room 1518, Asia Pacific Plaza,  
NO.18, Zhaofeng Road, Kunshan City,  
Jiangsu Province, China. 215332

Telephone : +86-512-81-867260/70/80

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**2. HAZARDS IDENTIFICATION****Emergency Overview****WHMIS Classification**

Not WHMIS controlled.

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

**HMIS Classification**

Health hazard: 0

Flammability: 0

Physical hazards: 0

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

**Ingestion** May be harmful if swallowed.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula :  $C_{10}H_{22}O_7$

Molecular Weight : 254.28 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Dipentaerythritol			
126-58-9	204-794-1	-	<=100%

**4. FIRST AID MEASURES****If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact**

Wash off with soap and plenty of water.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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**5. FIREFIGHTING MEASURES****Conditions of flammability**

Not flammable or combustible.

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

**Explosion data - sensitivity to mechanical impact**

no data available

**Explosion data - sensitivity to static discharge**

no data available

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Avoid dust formation. Avoid breathing vapours, mist or gas.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

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**7. HANDLING AND STORAGE****Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Personal protective equipment****Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work place., The type of protective equipment must be selected according to the concentration and amount

of the dangerous substance at the specific workplace.

#### **Hygiene measures**

General industrial hygiene practice.

#### **Specific engineering controls**

Use mechanical exhaust or laboratory fumehood to avoid exposure.

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

#### **Appearance**

Form	crystalline
Colour	white

#### **Safety data**

pH	no data available
Melting point/freezing point	Melting point/range: 215 - 218 °C (419 - 424 °F) - lit.
Boiling point	no data available
Flash point	no data available
Flammability (solid, gas)	The product is not flammable. - Flammability (solids)
Ignition temperature	no data available
Auto-ignition temperature	> 400 °C (> 752 °F) at 1,013.0 hPa (759.8 mmHg)
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	2.4 g/l at 20 °C (68 °F) - OECD Test Guideline 105 - soluble
Partition coefficient: n-octanol/water	log Pow: -1.8 at 23 °C (73 °F)
Relative vapour density	no data available
Odour	odourless
Odour Threshold	no data available
Evaporation rate	no data available

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### **10. STABILITY AND REACTIVITY**

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of hazardous reactions**

no data available

#### **Conditions to avoid**

no data available

#### **Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - no data available

**Thermal decomposition**

373 °C

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**11. TOXICOLOGICAL INFORMATION****Acute toxicity****Oral LD50**

LD50 Oral - rat - male and female - > 2,000 mg/kg

**Inhalation LC50**

no data available

**Dermal LD50**

no data available

**Other information on acute toxicity**

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitisation**

in vivo assay - mouse - Does not cause skin sensitisation. - OECD Test Guideline 429

**Germ cell mutagenicity**

Genotoxicity in vitro - Ames test - S. typhimurium - with and without metabolic activation - negative

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**Reproductive toxicity**

Reproductive toxicity - rat - male and female - Oral

No adverse effect has been observed in chronic toxicity tests.

no data available

**Teratogenicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential health effects****Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion**

May be harmful if swallowed.

**Skin**

May be harmful if absorbed through skin. May cause skin irritation.

**Eyes**

May cause eye irritation.

**Synergistic effects**

no data available

**Additional Information**

Repeated dose toxicity - rat - male and female - Oral - No observed adverse effect level - 1,000 mg/kg

No adverse effect has been observed in chronic toxicity tests.

RTECS: Not available

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**12. ECOLOGICAL INFORMATION****Toxicity**

Toxicity to fish                      semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia                  static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h  
and other aquatic                  Method: OECD Test Guideline 202  
invertebrates

Toxicity to algae                    static test EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - > 100 mg/l -  
72 h  
Method: OECD Test Guideline 201

**Persistence and degradability**

Biodegradability                  aerobic  
Result: 7 % - Not readily biodegradable.  
Method: OECD Test Guideline 301A

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

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**13. DISPOSAL CONSIDERATIONS****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

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**14. TRANSPORT INFORMATION****DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

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**15. REGULATORY INFORMATION****WHMIS Classification**

Not WHMIS controlled.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

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## **16. OTHER INFORMATION**

### **Text of H-code(s) and R-phrase(s) mentioned in Section 3**

#### **Further information**

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